IN THE CLAIMS:

1. (Currently Amended) A syntax coverage percentage measuring system <u>for</u> <u>testing development of a language processing system, said percentage measuring system</u> comprising:

a BNF (Backus Normal (Naur) Form) rule check table which has BNF data respectively corresponding to BNF syntax rules;

a first file reading section which reads each of test input files and carries out lexical analysis to data of each of the read test input files to classify into tokens;

a first syntax analyzing section which carries out syntax analysis to each of said tokens, and marks one of said BNF data of said BNF rule check table corresponding to said token;

a coverage percentage output section which acquires a total number of said BNF data and a number of said marked BNF data from said BNF rule check table, and calculates a coverage percentage based on the total number of said BNF data and the number of said marked BNF data; and

an output section which outputs said coverage percentage calculated by said coverage percentage output section.

2. (Original) The syntax coverage percentage measuring system according to claim 1, wherein said output section includes a display unit, and

said display unit displays said coverage percentage.

3. (Original) The syntax coverage percentage measuring system according to claim 1, wherein said coverage percentage output section retrieves said marked BNF data,

said output section includes a display unit, and

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said display unit displays said marked BNF data in addition to said coverage

percentage.

4. (Original) The syntax coverage percentage measuring system according to

claim 1, wherein said output section includes a storage unit having a reporting file, and

said output section stores said coverage percentage in said reporting file.

5. (Original) The syntax coverage percentage measuring system according to

claim 1, wherein said coverage percentage output section retrieves said marked BNF data,

said output section includes a storage unit having a reporting file, and

said output section stores said marked BNF data in addition to said coverage

percentage in said reporting file.

6. (Original) The syntax coverage percentage measuring system according to

claim 1, wherein said syntax analyzing section operates based on a syntax analysis program

which is generated based on a BNF file in which said BNF syntax rules are described.

7. (Original) The syntax coverage percentage measuring system according to

claim 1, wherein said BNF rule check table is generated based on a BNF rule check table

program which is generated based on a BNF file in which said BNF syntax rules are described.

8. (Currently Amended) A syntax coverage percentage measuring system for

testing development of a language processing system, said percentage measuring system

comprising:

a syntax coverage percentage measuring unit program generating unit which generates a syntax analyzing section program and a BNF rule check table program from a BNF file in which BNF syntax rules are described; and

a syntax coverage percentage measuring unit which reads said syntax analyzing section program and said BNF rule check table program generated by said syntax coverage percentage measuring unit program generating unit, tests data of each of test input files based on said syntax analyzing section program using said BNF rule check table program, and generates said syntax coverage percentage for each of said test input files based on a test result.

9. (Original) The syntax coverage percentage measuring system according to claim 8, wherein said syntax coverage percentage measuring unit program generating unit has a BNF rule database, and reads said BNF file, carries out syntax analysis to said BNF rules of said BNF file to generate BNF data, stores said BNF data in said BNF rule database, and generates said syntax analyzing section program and said BNF rule check table program from said BNF data in said BNF rule database.

10. (Original) The syntax coverage percentage measuring system according to claim 8, wherein said syntax coverage percentage measuring unit tests each of test input files based on said syntax analyzing section program using said BNF rule check table program, and outputs a coverage situation of said BNF syntax rules and said coverage percentage for said test input files based on the test result.

11. (Original) The syntax coverage percentage measuring system according to claim 8, wherein said syntax coverage percentage measuring unit program generating unit comprises:

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a BNF rule database;

a first file reading section which reads said BNF file and classifies data of said BNF file into tokens;

a BNF syntax analyzing section which carries out syntax analysis to each of said tokens to generate BNF data based on said BNF syntax rules, and stores said BNF data in said BNF rule database;

a syntax analyzing section generating section which generates said syntax analyzing section program from said BNF data stored in said BNF rule database;

a BNF rule check table generating section which generates said BNF rule check table program from said BNF data stored in said BNF rule database.

12. (Original) The syntax coverage percentage measuring system according to claim 11, further comprising:

a display unit; and

a semantic test section carries out semantic analysis to said BNF data stored in said BNF rule database and controls said display unit to display an error message when a semantic discrepancy is found in said BNF data.

13. (Original) The syntax coverage percentage measuring system according to claim 11, wherein each of said BNF data has a BNF rule number and a check section, and

said check section is marked by said syntax coverage percentage measuring unit.

14. (Original) The syntax coverage percentage measuring system according to claim 8, wherein said syntax coverage percentage measuring unit comprises:

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a BNF rule check table generated based on said BNF rule check table program and having said BNF data;

a second file reading section which reads each of test input files and carries out lexical analysis to data of each of the read test input files to classify into tokens;

a syntax analyzing section which carries out syntax analysis to each of said tokens, and marks one of said BNF data of said BNF rule check table corresponding to said token;

a coverage percentage output section which is generated based on said syntax analyzing section program, and acquires a total number of said BNF data and a number of said marked BNF data from said BNF rule check table, and calculates a coverage percentage based on the total number of said BNF data and the number of said marked BNF data; and

an output section which outputs said coverage percentage calculated by said coverage percentage output section.

15. (Original) The syntax coverage percentage measuring system according to claim 14, wherein said output section includes a display unit, and

said display unit displays said coverage percentage.

16. (Original) The syntax coverage percentage measuring system according to claim 14, wherein said coverage percentage output section retrieves said marked BNF data,

said output section includes a display unit, and

said display unit displays said marked BNF data in addition to said coverage percentage.

17. (Original) The syntax coverage percentage measuring system according to claim 14, wherein said output section includes a storage unit having a reporting file, and

said output section stores said coverage percentage in said reporting file.

18. (Original) The syntax coverage percentage measuring system according to claim 14, wherein said coverage percentage output section retrieves said marked BNF data,

said output section includes a storage unit having a reporting file, and

said output section stores said marked BNF data in addition to said coverage percentage in said reporting file.

19. (Original) The syntax coverage percentage measuring system according to claim 14, wherein said syntax analyzing section operates based on a syntax analysis program which is generated based on a BNF file in which said BNF syntax rules are described.

20. (Original) The syntax coverage percentage measuring system according to claim 14, wherein said BNF rule check table is generated based on a BNF rule check table program which is generated based on a BNF file in which said BNF syntax rules are described.

21. (Currently Amended) A method of measuring a syntax coverage percentage for testing development of a language processing system, said method, comprising the steps of:

reading each of test input files to carry out lexical analysis to data of each of the read test input files to classify into tokens;

carrying out syntax analysis to each of said tokens, to mark one of BNF data of a BNF rule check table corresponding to said token, said BNF rule check table having said BNF data respectively corresponding to BNF syntax rules;

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acquiring a total number of said BNF data and a number of said marked BNF data

from said BNF rule check table;

calculating a coverage percentage based on the total number of said BNF data and

the number of said marked BNF data; and

outputting said coverage percentage calculated by said coverage percentage

output section.

22. (Original) The method according to claim 21, wherein said outputting step

comprises the step of:

displaying said coverage percentage on a display unit.

23. (Original) The method according to claim 21, wherein said outputting step

comprises the step of:

outputting said coverage percentage to store in said reporting file.

24. (Original) The method according to claim 21, wherein said step of carrying

out syntax analysis is carried out based on a syntax analysis program which is generated based

on a BNF file in which said BNF syntax rules are described.

25. (Original) The method according to claim 21, wherein said BNF rule check

table is generated based on a BNF rule check table program which is generated based on a BNF

file in which said BNF syntax rules are described.

26. (Currently Amended)) A method of measuring a syntax coverage percentage,

for testing development of a language processing system, said method comprising the steps of:

generating a syntax analyzing section program and a BNF rule check table

program from a BNF file in which BNF syntax rules are described;

reading said syntax analyzing section program and said BNF rule check table

program generated by said syntax coverage percentage measuring unit program generating unit;

testing data of each of test input files based on said syntax analyzing section

program using said BNF rule check table program; and

generating said syntax coverage percentage for each of said test input files based

on a test result.

27. (Original) The method according to claim 26, wherein said step of generating

a syntax analyzing section program and a BNF rule check table program comprises the steps of:

reading said BNF file and classifies data of said BNF file into tokens;

carrying out syntax analysis to each of said tokens to generate BNF data based on

said BNF syntax rules, and stores said BNF data in a BNF rule database;

generating said syntax analyzing section program from said BNF data stored in

said BNF rule database;

generating said BNF rule check table program from said BNF data stored in said

BNF rule database.

28. (Original) The method according to claim 27 further comprising the steps of:

carrying out semantic analysis to said BNF data stored in said BNF rule database;

and

controlling a display unit to display an error message when a semantic

discrepancy is found in said BNF data.

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